

# TURBOACE

*Setting you free*

## ❖ ALLSTEADY-6 GIMBAL MANUAL V2.4



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# I. Quick Start Guide

## WARNING BEFORE USE

- 1) Remove the gimbal from the box. Insert the middle handle then secure it by tightening the thumb screw in a clockwise direction. Attach the double handle bar to the gimbal quick release plate as shown on Diagram A #11 then turn the thumb screw clockwise to secure. Rotate the left and the right handles to the desirable position and secure them with the thumb screws. Plug in the joystick connector shown on Diagram A #12.
- 2) The gimbal is initialized in a low power setting in mode #4 with the joystick disabled. The joystick will not function until the mode has been set. Press the joystick button once for mode 1, twice for mode 2, three times for mode 3, four times for mode 4, and five times for mode 5. For more information on the different modes see item 9, or for more detailed information see Section V.
- 3) Be sure to keep the gimbal powered off during set up and balancing. The power switch is located at the back of the gimbal. To Power off the gimbal press the "o" and to power on press the "-".
- 4) Charge the battery by following the instructions in Section II. Insert the battery into the tube, plug in the battery connector and lock the thumb knob on top as shown in Diagram B #3. Recharge the battery when the alarm sounds. The gimbal will not function properly with a low battery and will be unable to hold the camera.
- 5) All gimbals require balancing to establish the center of gravity. If gimbal is not properly balanced, you may get vibration or shaking. If your gimbal is not operating properly, please set gimbal on the stand and follow the balancing procedure on Section III or go to <http://www.turboace.com> for tutorial video links.
- 6) Before setting the gimbal on the balancing stand, please follow the balancing stand setup on Section IV. Balancing stand is an optional item and it can be purchased separately at <http://www.turboace.com>.
- 7) It is important to properly balance the camera and gimbal before use. A gimbal is balanced when the camera can be tilted at any angle and will stay in that position when let go. If the gimbal leans to one side or returns to center when hanging free, the gimbal is not properly balanced.
- 8) Turn on the gimbal by pressing down the "-" on the power switch. The gimbal must be stationary during initialization. Please do not allow the gimbal to swing or move it in any way. The gimbal will power on in 1 to 3 seconds. When you see gimbal twitch, initialization then has been completed.
- 9) With the gimbal properly balanced, you must next find the correct operating mode for your camera. These modes are chosen based on the weight of your camera. The correct mode will have no oscillations or vibrations. If the camera is bouncing or unable to hold its position, the gimbal needs more power. If you are getting high frequency vibrations, the gimbal has too much power. Experiment with modes 1, 2, and 3 to find which mode works best with your camera. Mode 1 has the least amount of power and is intended for smaller cameras such as the GH4, A7s, and in some cases the Canon 5D with a small lens. Mode 2 is intended for medium size cameras such as the Canon 5D with the 24-105mm lens and other similarly sized DSLR cameras. Mode 3 is set for large cameras such as the RED Epic. If none of these modes seem to work properly for your camera, please check the balance and try again.
- 10) Please select the correct mode for your camera each time you turn on your gimbal.

# ❖ **Thank you for purchasing the AllSteady-6 Gimbal**

*[Before getting started, please follow our balancing guide. We recommend you have your camera and accessories (i.e. filter, batteries, etc.) mounted before balancing the gimbal. If your lens has an adjustable zoom, set the zoom to the desired position before balancing.]*

## **FOR YOUR CONSIDERATION**

All Turbo Ace warranties, instructional manuals, or any miscellaneous documentation for the AllSteady-6 must be speculated. Turbo Ace does their best to resolve any technical errors in order to increase the overall efficiency of the AllSteady-6.

## **DISCLAIMER**

While the AllSteady-6 does not require a license to use, please regard this as advanced cinema gear that must be handled with caution and good judgment. A basic understanding of mechanical functions is needed in order to operate the AllSteady-6 safely and responsibly. Failure to do so could not only result in injury of yourself and others, but irreparable damage to your gimbal.

It is essential to read our User Manual to ensure a safe and smooth experience. Please note that Turbo Ace will not be held responsible for any contrary interpretation made by the user that is different from what the manual intended. Turbo Ace reserves the right to adjust the manual when needed and is not responsible to alert any user of such changes.

## **ALLSTEADY-6 WARRANTY**

Turbo Ace offers a limited one year warranty where all service and parts support is provided from Turbo Ace's service center and factory located in Orange, California.

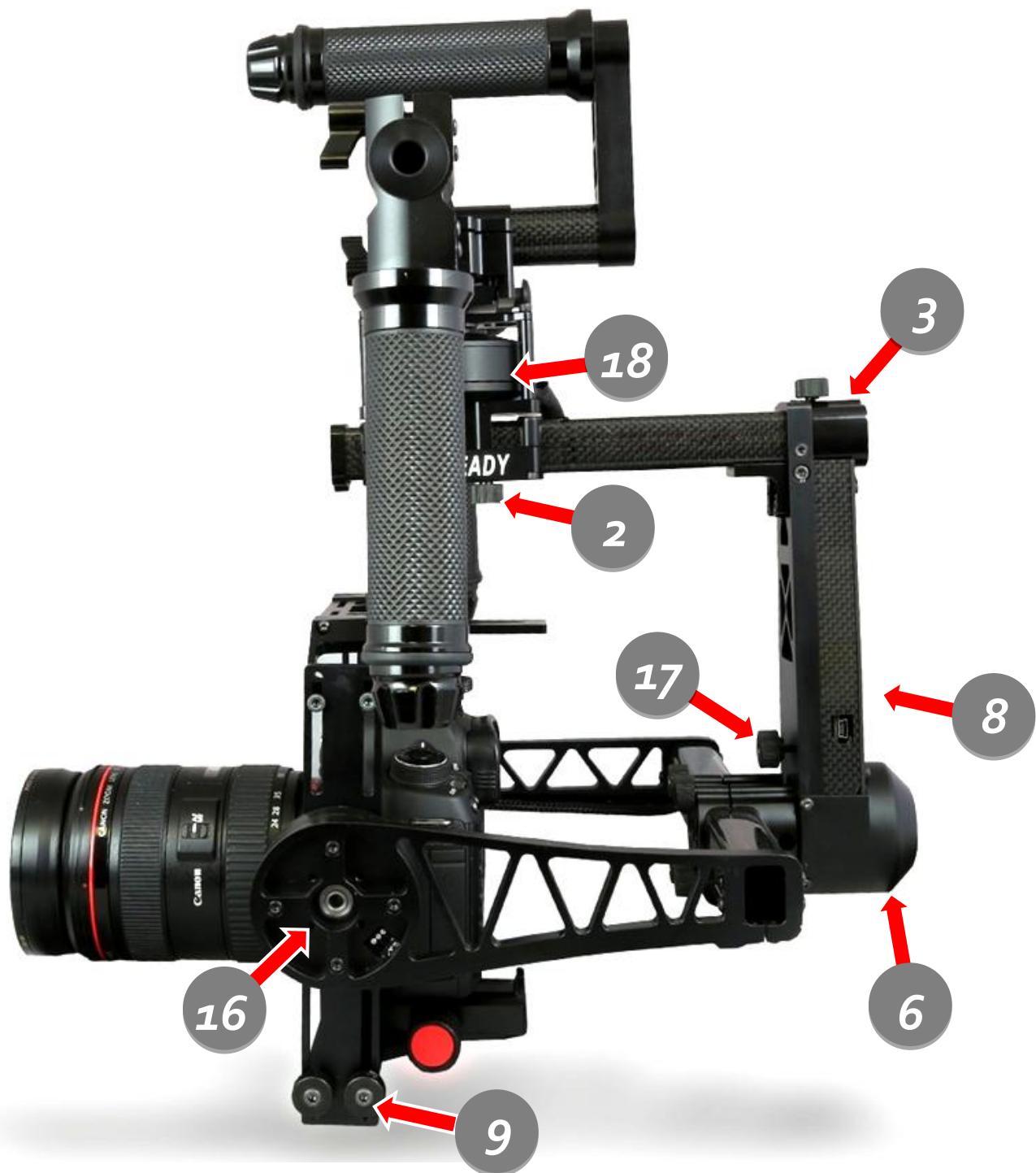
- ❖ **1 Year Warranty on Parts**
- ❖ **30 Days Warranty on Parts & Labor**
- ❖ **30 Days Phone Support and 90 days free email support**
- ❖ **After warranty phone support is available at a rate of \$1 per minute**

# Diagram A



ALLSTEADY 6

# Diagram B



ALLSTEADY 6

## AllSteady-6 Diagram & Options:

❖ Please use Diagrams A & B for reference.

- 1) Joystick (2-axis) and Mode switch button (press joystick down to switch modes)
- 2) Tool-less Pan-Axis Center of Gravity Micro Adjustment. Loosen hex crews with a tool to move the entire bracket for Macro adjustment only when absolutely needed.
- 3) Integrated Battery Compartment
- 4) Quick Release Camera Top Mount Bracket Adjustment. Allows you to lock camera flash mount in all position without moving the top tray bracket. The top tray bracket can be converted to tool-less as well by purchasing 4 additional thumb screws. Top flash lock to camera is critical for a vibration-free gimbal.
- 5) Main Electronic Compartment with easy access power switch
- 6) High Torque Roll-Axis Brushless Motor
- 7) Rubber Grip Handle Adjustment Knob.
- 8) Remote Control Ports, PMW / Servo Cable Inputs.
- 9) Vertical Tilt Adjustment, match ruler guide on both sides to stay level
- 10) Accessory Mount / 15mm Rod Mount for follow focus and other gears
- 11) Quick release gimbal plate detaches handle for Tripod, Multi-rotor, Crane, etc..
- 12) Joystick Connector. Must be plugged in when handle is attached to the gimbal
- 13) Auxiliary Power Jack (Optional) 12 VDC max 2A for video TX or follow focus
- 14) Dual Bearing Support Cage (Optional)
- 15) Vertical Tilt Precision Guide on both side of the tray allows level alignment.
- 16) Tilt Axis Motor
- 17) Anti-Twist Wire Protection for Roll Axis, turn counter-clockwise to unlock
- 18) Pan Axis Motor
- 19) Center Top Handle

## II. Battery & Charger

Your AllSteady-6 comes with a smart lithium ion battery. There is a built-in smart controller in each battery pack that monitors the voltage during charging and discharging so you will never have to worry about under or overcharging. It will take approximately 2 hours to charge an empty battery.

### **WARNING BEFORE USE**

**\*\*Never** leave charger unattended, exceed maximum charge rate, charge with non-approved batteries or charge batteries in the wrong mode.

**\*\*Always** ensure the battery you are charging meets the specifications of this charger and that the charger settings are correct. Not doing so can result in excessive heat and other related product malfunctions, which can lead to user injury or property damage.

### **PLEASE DO NOT...**

- ...leave the power supply, charger and battery unattended during use.
- ...attempt to charge dead, damaged or wet battery packs.
- ...attempt to charge a battery pack containing different types of batteries.
- ...allow minors to charge battery packs.
- ...charge batteries in extremely hot or cold places or place in direct sunlight.
- ...charge a battery if the cable has been pinched or shorted.
- ...connect more than one battery pack to this charger at a time
- ...connect the charger if the power cable has been pinched or shorted.
- ...connect the charger to an automobile 12V battery while the vehicle is running.
- ...attempt to dismantle the charger or use a damaged charger.
- ...reverse the positive and negative terminals.
- ...connect battery to AC power.

### **KEEP IN MIND TO ALWAYS...**

- ...power on the charger before connecting the battery
- ...use only rechargeable batteries designed for use with this type of charger.
- ...inspect the battery before charging.
- ...keep the battery away from any material that could be affected by heat.
- ...monitor the charging area and have a fire extinguisher available at all times.
- ...end the charging process if the battery becomes hot to the touch or starts to change form (swell) during the charge process.

***\*\*Failure to follow the advised steps while using this product will not only result in product malfunction, but can also cause severe injury and property damage.***

## **BATTERY CHARGING AND INSTALLATION:**

1. Plug charger into a working 110V AC power source.
2. Connect charger to the battery.
3. Charger has an LED indicator on front, LED will be red while battery is charging and automatically changes to green once charge is complete.
4. Locate the battery compartment which is in the top pan boom (the top pan boom is located on top of the gimbal and below the pan motor).
5. Insert the battery in compartment and hook up the connectors.
6. Turn on the power and you are ready to operate.
7. There is an optional auxiliary power out connector located on the camera tray. By connecting an optional battery meter/indicator you can monitor the power level. On some models, a battery alarm will sound when the voltage is low and the battery must be charged. Another indication of low power is when the gimbal is unable to hold its balance.



We strongly recommend that you **DO NOT** turn on your gimbal  
if your camera is not mounted.

### III. BALANCING YOUR GIMBAL

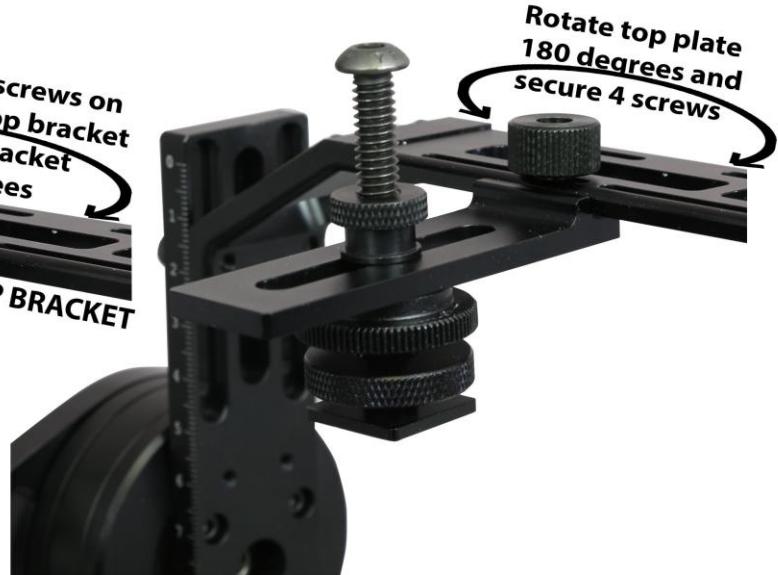
 We recommend you have your camera and accessories (i.e. filter, batteries, etc.) mounted **before** balancing the gimbal. If your lens has an adjustable zoom, set the zoom to the desired position before balancing.

Before balancing your camera, please make sure it is secured on top of the flash mount bracket. Vibration may occur if the camera is not tightly secured to top and bottom of the camera tray. There are 2 ways to mount the flash lock on the top bracket, either below or above for more clearance. Figure on left is for camera that needs additional clearance and figure on right is for smaller camera. You do not need to change the position of this bracket unless absolutely needed.

**Camera flash lock bracket  
above top plate  
to increase  
vertical clearance**



**Camera flash lock bracket below top plate**



There are 3 axis that need to be adjusted to ensure proper operation for the gimbal. They include the horizontal and vertical tilt, roll balance, and pan balance. There is also an instructional video for balancing at <http://www.turboace.com/allsteady-6-manual.aspx>

#### STEP 1: HORIZONTAL TILT

Balancing your gimbal horizontally (or front-to-back) is the first step to keep your camera level. Users must consider that in order to achieve this goal, the camera and Tilt Axis need to be level. Since this is the first step, please note that the gimbal has not yet been balanced vertically for the Tilt Axis. With this being said, it can be assumed that it will only be possible to verify the horizontal tilt to be balanced once the camera and Tilt Axis are level. If the camera is situated too high or too low with respect to the Tilt Axis, it can easily obscure the issue of the horizontal tilt being imbalanced. Please follow the directions below:

1. Loosen your tripod screw under the camera, allowing the camera to slide forwards and backwards.
2. If the camera tilts down lens-first, slide the camera backwards. If the camera tilts so the lens faces upwards, slide the camera forwards. Continue making incremental adjustments until the camera sits level and does not tilt forward or backwards.
3. Make sure to confirm that the camera is securely mounted to the adjustable camera tray.

## **STEP 2: VERTICAL TILT**

Once you have completed Step 1 in balancing the horizontal tilt, your next step is balancing the vertical (or up-and-down) tilt. To accomplish this, you must first locate and loosen 4 thumb screws on each side of the camera cage. Adjust your camera's vertical position in the camera cage until it is able to tilt and hold its position at any angle. For example, if you point the lens down and you notice the tilt wanting to continue tilting forward on its own, then that is an indicator that it is "top heavy" and the camera needs to be shifted down vertically. Another example is if you point the camera lens down and it wants to return to its original position, then it is "bottom heavy" and your camera needs to be shifted upwards. Please follow the steps below:

1. Observe which way you need to adjust your camera. You can do this by tipping the camera lens down 20 degrees. If the camera returns to horizontal, then the Tilt Axis is bottom heavy. If the camera continues to rotate down when left to stay in position, then the Tilt Vertical Axis is top heavy.
2. In order to use gravity to detect any vertical imbalance, you must rotate the Tilt Axis (the camera cage) 90° so that your lens is facing straight up.
3. For more standard vertical tilt adjustments you will only need to loosen 4 lower thumb screws (two on each side of the camera cage) and the flash lock on top of the camera. This will release the camera and the camera cage's bottom bracket from the camera cage for the required adjustments. For major vertical tilt adjustments which is usually not required, you will need to additionally loosen the 4 upper hex screws (two on each side) securing the camera cage's top bracket.
4. Slide your camera with the camera cage's bottom bracket towards or away from the middle of the camera cage until the lens will remain pointing straight up once released.
5. Be sure to tighten all 4 lower thumb screws located the side of the camera tray and the flash mount on top of the camera while making sure the camera cage's bottom bracket is locked evenly at the same point on either side of the camera cage frame. Before going any further, verify that you have properly adjusted your Vertical Tilt Axis by moving your camera to several tilt angles. If it holds or stays in the same place once your hands are released, then you are good to go!

## **STEP 3: ROLL BALANCE**

Now that you're finished with the first two steps, your Tilt Axis should be completely balanced. Now you can start adjusting your Roll Axis. **Keep in mind** that the thumb screw only needs to be loosened slightly to have the roll beam slide back and forth. Loosen the 4 thumb screws on the front of the roll beam. Slide the roll beam until the Roll Axis of the camera is balanced, and does not want to fall to either side. To lock the roll beam in place, tighten the 4 thumb screws.

Verify the balance by moving your Roll Axis to several locations. If roll stays and does not fall to either side, your roll is balanced.

## **STEP 4: PAN BALANCE**

The pan balance is the last axis to balance for the AllSteady-6. The Pan Balance will ensure that the entire mass below the pan motor is balanced on the central axis line of the pan motor. The simplest way to check for your Pan Axis to be balanced is to tilt the gimbal in the stand and see which way the Pan Axis swings.

1. Place AllSteady 6 in balance stand with camera facing forward.
2. Lift right handle 20° and leave left handle on stand, making right side of gimbal higher.
3. If the lens points to the low side, it means that the gimbal is "nose heavy" and the Pan knuckle needs to slide backwards.
4. If the back of the gimbal points to the low side, it means that the gimbal is "tail heavy" and the Pan knuckle needs to slide forward.
5. Loosen the thumb screws (similar to the one on the roll axis) just enough for the knuckle to slide.
6. Slide the gimbal in the direction needed as advised in Steps 4 & 5. When making this adjustment, it's very helpful to cradle the bottom of the gimbal to release any weight that binds the boom to the bracket.
7. Tighten the thumb screws once pan is balanced.
8. When you rotate the AllSteady handles, confirm that the camera will not swing to the left or right. This ensures proper forward and backward balance.

## **IV. OPTIONAL EQUIPMENT**

### **Articulating Monitor Arm Installation Guide**

The articulating arm is an extension of the monitor bracket that allows the monitor to be moved freely and be placed at multiple angles for optimal viewing.

1. Align the 6mm diameter-articulating-arm screw to the open slot of the bracket.
2. At the slot opening, locate the indented cavity.
3. Please turn the arm in a clockwise manner or else the screws may not be fitted through the opening properly.
4. Next align the 2 flat keys of the arm to the slotted cavity. The flat keys are designed to prevent the bracket from turning during operation.

### **Tuning Stand**

The tuning stand is a very useful tool for the Allsteady 6 gimbal. The stand allows you to hang the gimbal by the handle bars, allowing the camera tray to rotate freely. This is very important for balancing, tuning, and setting down the gimbal when not in use.

To open the tuning stand, follow these instructions.

1. Choose an arm to unfold and loosen the thumbscrew by rotating in the counter-clockwise direction.
2. Do not completely unscrew this knob, only enough to free the arm from the notch and allow you to rotate the arm around into position.
3. The arm will stop when it's in position. Rotate the thumbscrew clockwise to tighten the screw and lock the arm into position.
4. Repeat the process to unfold the rest of the arms.

## Waterproof Case



### **Important Setup Instruction**

1. For future reference, insert both sheets in the plastic pouch behind the top cover foam, see Figure A
2. Remove the handle bar, insert center handle and attach to gimbal. Plug in joystick connector to gimbal.
3. Camera must be balanced on gimbal, see video and manual instruction at [www.turboace.com](http://www.turboace.com) before use
4. Activate joystick by press down the stick once or twice depending on the weight of the camera
5. Follow instruction and quick start guide on manual before operation at [www.turboace.com](http://www.turboace.com)

# V. PROGRAM MODES

The Allsteady 6 has 5 pre-programmed operating modes. These different modes affect how the gimbal controller behaves. These modes do not affect operating position (i.e. inverted mode, briefcase mode). For more information on operating positions, see section **VI** below.

- **Mode 1 – Small Camera, Full Follow**

Mode 1 is a full follow mode tuned for small cameras. When panning and tilting the gimbal using the handlebar, the camera will follow all of your movements at a fast pace. The roll axis will always be level. Fast twitch and accidental movements are neutralized by the gimbal controller and will not adversely affect the movement of the camera. The gimbal will be constantly working to provide stable footage with smooth panning and tilting movements.

- To activate mode 1, press the joystick button **one time** and wait 1 - 3 seconds.
- Small cameras are approximately 1625 grams and under. (Canon 5D Mk 3 with the EF 16-35mm F2.8L and under)

- **Mode 2 – Medium Camera, Full Follow**

Mode 2 is a full follow mode tuned for medium sized cameras. When panning and tilting the gimbal using the handlebar, the camera will follow all of your movements at a fast pace. The roll axis will always be level. Fast twitch and accidental movements are neutralized by the gimbal controller and will not adversely affect the movement of the camera. The gimbal will be constantly working to provide stable footage with smooth panning and tilting movements.

- To activate mode 2, press the joystick button **two times** consecutively and wait 1 - 3 seconds.
- Medium sized cameras are above approximately 1625 grams. (Canon 5D Mk 3 with EF 24-105mm F4L and up)

- **Mode 3 – Large Camera, Full Follow**

Mode 3 is a full follow mode tuned for large sized cameras. When panning and tilting the gimbal using the handlebar, the camera will follow all of your movements at a fast pace. The roll axis will always be level. Fast twitch and accidental movements are neutralized by the gimbal controller and will not adversely affect the movement of the camera. The gimbal will be constantly working to provide stable footage with smooth panning and tilting movements.

- To activate mode 3, press the joystick button **three times** consecutively and wait 1 - 3 seconds.
- Large cameras are above approximately g. (Canon 5D Mk 3 with EF 24-105mm F4L and over)

- **Mode 4 – Small Camera, Accessory Mode (Default mode when gimbal is turned on)**

Accessory Mode allows you to operate the gimbal without the top handle and joystick, a setup that allows you to mount the gimbal on a tripod/crane/jib. This mode behaves much the same as the Fast Follow Mode 2.

- By default, mode 4 will be the mode selected when powering on your gimbal.
- Use mode 4 whenever the top handle and joystick are removed from the gimbal.
- By default, this mode will be a full follow mode. If you purchased the Wireless Remote Joystick, this will be a *Locked Mode*. In the *Locked Mode* the camera will remain in a fixed position, only moving with input from the Wireless Remote Joystick.

- **Mode 5 – Medium Camera, Accessory Mode**

This mode is identical to Mode 4, though it is tuned for the medium camera settings.

- To use this mode, the default mode must be changed using a PC or Mac. Please visit [www.turboace.com](http://www.turboace.com) for detail instructions.

**Note:** When powering the gimbal on and off, the gimbal will always default to Mode 4. Please remember to change the mode for your camera every time you turn on the gimbal.

# VI. OPERATING POSITIONS

The Allsteady 6 can operate in many positions, allowing you to get shots from down low and up high or even mount the gimbal to a tripod or crane. These operating positions can be changed very quickly by cycling the gimbals power. The gimbal can operate in all five of the program modes while in any of these operating positions.

- **Under-Slung Position**

This is the most commonly used mode with the handles up on top and the camera down below. When the gimbal is resting in the tuning stand, it is in the Under-Slung mode.

- Simply power on the gimbal from the tuning stand, or while in your hands, to begin using the gimbal in the Under-Slung Position.
- Don't forget to change to the correct mode for your camera size.

- **Inverted Position**

Use this mode when you want to get the camera to sit comfortably at an elevated level. You can also hold the gimbal up high to get shots from above.

- To get the gimbal into the Inverted Position, start by holding the gimbal in your hands in the normal Under-Slung position as shown in Diagram A
- It is very important to remember to turn the gimbal powered off before changing to this new position.
- Invert the rubber grip handles 180 degrees.
- Rotate the pan axis 180 degrees while keeping the camera pointed forward. If done correctly, you should have the joystick on your left side facing you. **Note:** Once the gimbal is flipped into Inverted Mode the joystick will be back in your right hand.
- Rotate the gimbal upside down in a clockwise direction. Then rotate the camera tray along the roll axis in the counter-clockwise direction. Pay attention to the wired connection near the roll motor and be careful not to pull or twist this cable. If this move is done correctly, the cable will have plenty of slack to operate in the Inverted Mode.
- You may choose to use a piece of furniture to help you flip the gimbal without dropping it.
- Once you've successfully gotten into the Inverted Position, simply power on the gimbal to begin using it.
- Don't forget to change to the correct mode for your camera size by using the joystick button.
- After some practice you should be able to get the gimbal into the Inverted Position quickly and easily. Here is a shortcut: grab the gimbal by the center top handle with your right hand and by the camera tray with your left. Quickly flip the gimbal up into the inverted mode in one continuous movement. Be sure that the camera tray clears the pan axis before attempting this.

- **Briefcase Position**

Use this Position to get shots down low. In this position, you will be holding the gimbal at your side with one hand on the rubber side handle.

- To get the gimbal into the Briefcase Position, start by holding the gimbal in your hands in the Under-Slung position with the gimbal powered off.

- Make sure you are in mode 1,2 or 3, use the joystick to rotate the pan axis and handle bar 90 degrees counter clockwise. The handle bar should now be lined up with the camera and the joystick should be at the front, near the camera lens.
- Grab the rubber grip handle in the front with one hand and allow the back handle to hang down to the ground. The handle bar should now be vertical.
- Check that the camera is level with the ground. Make any adjustments to the gimbal that you need to ensure that the camera is level with the ground.
- Power up the gimbal. The gimbal will recognize that it is in briefcase mode.
- Don't forget to change to the correct mode for your camera size by using the joystick button.

- **Accessory Mounted Position**

Whenever you remove the top handle bar to mount the gimbal, you are in the Accessory Mounted Position. This includes the Under-Slung, Inverted, or Briefcase orientations while mounting the gimbal without the use of the handlebar and joystick.

- Remove the top handlebar and joystick with the gimbal powered off and mount the gimbal to your accessory using the mounting plate.
- Power on the gimbal. The gimbal will be in the small camera mode by default. If the gimbal is not behaving correctly, please visit [www.turboace.com](http://www.turboace.com) for detailed instructions on how to use the gimbal in the Accessory Mounted Position with larger cameras.

## **VII. WIRELESS REMOTE JOYSTICK CONTROL**

This information is only intended for users operating with the Wireless Remote Joystick Installed:

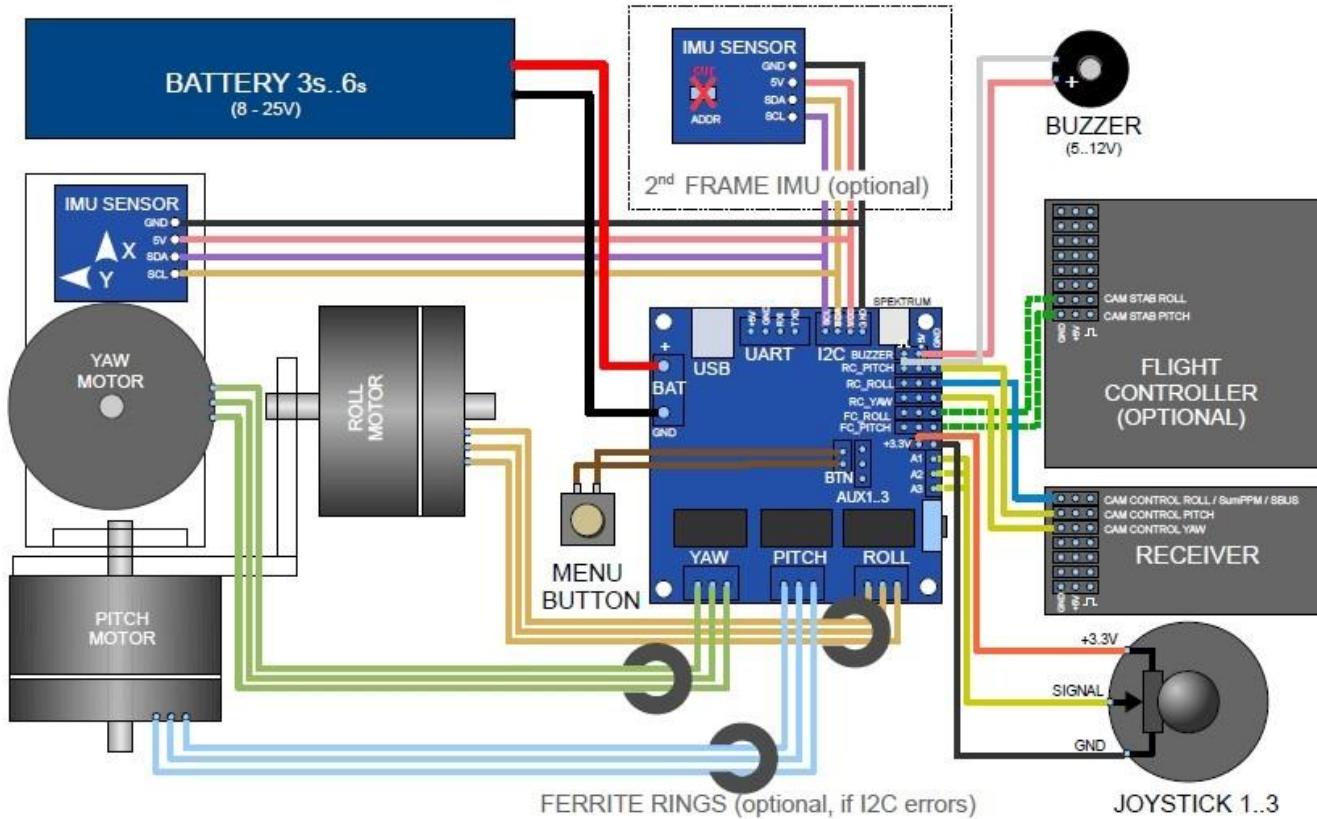
To give you full control without interference, your gimbal is shipped to you without follow for mode #4 and #5. If you wish to use the wired joystick for control instead of wireless, please switch to mode 1, 2 or 3. To setup the wireless joystick control, please follow the direction below.

1. Turn on the transmitter power button located at the center of the wireless remote control.
2. Turn on the gimbal power.
3. Use the left stick for yaw panning movement.
4. Use the right stick for pitch tilt movement.
5. If the direction of the joystick is reversed on the tilt, press the lower right "SELECT" button on the wireless joystick consecutively 4 times until SW#2 is selected then follow by pressing the top right "INC +" button once to reverse the tilt direction. Turn off the transmitter, it will remember your setting.
6. If the direction of the joystick is reversed on the pan, press the lower right "SELECT" button on the wireless joystick consecutively 6 times until SW#4 is selected then follow by pressing the top right "INC +" button once to reverse the pan direction. Turn off the transmitter, it will remember your setting.
7. Please make sure the transmitter power is turned off after use.

## VIII. WIRELESS RECEIVER CONNECTIONS

- ❖ Use the image below as a guide to hook up your gimbal wirelessly so that you may control it with a transmitter instead of the joystick.

SimpleBGC 3.0 (32bit) connection diagram



## IX. SOFTWARE

There is a free download for a program that allows you to set your preferences for how the gimbal should react to various movements, change its default mode setting, direction of the joystick control, as well as the ability to fine-tune the balance of the gimbal further than the manual calibrations as described previously.

### System Requirements:

Computer with Windows / Mac OSX / Linux  
7.5 MB storage space

### Software Download (2.43b9):

<http://www.basecamelectronics.com/downloads/32bit/>

### Software Manual Download:

[http://www.basecamelectronics.com/files/v3/SimpleBGC\\_32bit\\_manual\\_2\\_43\\_eng.pdf](http://www.basecamelectronics.com/files/v3/SimpleBGC_32bit_manual_2_43_eng.pdf)